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By: Nancy Ramos Printed: Nancy Ramos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Michael G. Walker, Wayne Volkmuth, Tod M. Klingler

Title: **DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS**

Serial No.: To Be Assigned Filed: Herewith

Examiner: To Be Assigned Group Art Unit: To Be Assigned

Commissioner for Patents
Washington, D.C. 20231

SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR §1.821- 1.825, Applicants hereby submit one (1) diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The diskette complies with the requirements of 37 CFR §1.824 and is IBM PC compatible using a UNIX operating system with PERL Program.

Accompanying the application is the paper copy of the Sequence Listing as disclosed in the application.

The content of the "Sequence Listing" paper copy is identical to the computer readable copy, as required under 37 CFR § 1.821(f).

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: May 23, 2001 Daniel B. Struth Reg. No. 43,168
for Lynn E. Murry, Ph.D.
Reg. No. 42,918
Direct Dial Telephone: (650) 845-4159

3160 Porter Drive
Palo Alto, California, 94304
Tel. No. 650-855-0555
Fax. No. 650-849-8886

09641-0504
T02250 T24960

<110> Walker, Michael G.
 Volkmuth, Wayne
 Klingler, Tod M.

<120> DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS

<130> PB-0008-1 CIP

<140> 09/226,994

<141> 1999-01-07

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PB-0008-1 CIP

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<212> PRT

<213> Homo sapiens

<220> -

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<400> 14

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Gly Ala Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu
          20          25          30
Asn Pro Ser Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn
          35          40          45
Lys Ser Ile Arg Ile Ile Phe Ser Tyr Val Gln Leu Asp Pro Asp
          50          55          60
Gly Ser Cys Glu Ser Glu Asn Ile Lys Val Phe Asp Gly Thr Ser
          65          70          75
Ser Asn Gly Pro Leu Leu Gly Gln Val Cys Ser Lys Asn Asp Tyr
          80          85          90
Val Pro Val Phe Glu Ser Ser Ser Ser Thr Leu Thr Phe Gln Ile
          95          100          105
Val Thr Asp Ser Ala Arg Ile Gln Arg Thr Val Phe Val Phe Tyr
          110          115          120
Tyr Phe Phe Ser Pro Asn Ile Ser Ile Pro Asn Cys Gly Gly Tyr
          125          130          135
Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser Pro Asn Tyr Pro Lys
          140          145          150
Pro His Pro Glu Leu Ala Tyr Cys Val Trp His Ile Gln Val Glu
          155          160          165
Lys Asp Tyr Lys Ile Lys Leu Asn Phe Lys Glu Ile Phe Leu Glu
          170          175          180
Ile Asp Lys Gln Cys Lys Phe Asp Phe Leu Ala Ile Tyr Asp Gly
          185          190          195
Pro Ser Thr Asn Ser Gly Leu Ile Gly Gln Val Cys Gly Arg Val
          200          205          210
Thr Pro Thr Phe Glu Ser Ser Ser Asn Ser Leu Thr Val Val Leu
          215          220          225
Ser Thr Asp Tyr Ala Asn Ser Tyr Arg Gly Phe Ser Ala Ser Tyr
          230          235          240
Thr Ser Ile Tyr Ala Glu Asn Ile Asn Thr Thr Ser Leu Thr Cys
          245          250          255
Ser Ser Asp Arg Met Arg Val Ile Ile Ser Lys Ser Tyr Leu Glu
          260          265          270
Ala Phe Asn Ser Asn Gly Asn Asn Leu Gln Leu Lys Asp Pro Thr
          275          280          285
Cys Arg Pro Lys Leu Ser Asn Val Val Glu Phe Ser Val Pro Leu

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Asn Gly Cys Gly	Thr Ile Arg Lys Val	Glu Asp Gln Ser Ile Thr	290	295	300
			305	310	315
Tyr Thr Asn Ile	Ile Thr Phe Ser Ala	Ser Ser Thr Ser Glu Val	320	325	330
Ile Thr Arg Gln	Lys Gln Leu Gln Ile	Ile Val Lys Cys Glu Met	335	340	345
Gly His Asn Ser	Thr Val Glu Ile Ile	Tyr Ile Thr Glu Asp Asp	350	355	360
Val Ile Gln Ser	Gln Asn Ala Leu Gly	Lys Tyr Asn Thr Ser Met	365	370	375
Ala Leu Phe Glu	Ser Asn Ser Phe Glu	Lys Thr Ile Leu Glu Ser	380	385	390
Pro Tyr Tyr Val	Asp Leu Asn Gln Thr	Leu Phe Val Gln Val Ser	395	400	405
Leu His Thr Ser	Asp Pro Asn Leu Val	Val Phe Leu Asp Thr Cys	410	415	420
Arg Ala Ser Pro	Thr Ser Asp Phe Ala	Ser Pro Thr Tyr Asp Leu	425	430	435
Ile Lys Ser Gly	Cys Ser Arg Asp Glu	Thr Cys Lys Val Tyr Pro	440	445	450
Leu Phe Gly His	Tyr Gly Arg Phe Gln	Phe Asn Ala Phe Lys Phe	455	460	465
Leu Arg Ser Met	Ser Ser Val Tyr Leu	Gln Cys Lys Val Leu Ile	470	475	480
Cys Asp Ser Ser	Asp His Gln Ser Arg	Cys Asn Gln Gly Cys Val	485	490	495
Ser Arg Ser Lys	Arg Asp Ile Ser Ser	Tyr Lys Trp Lys Thr Asp	500	505	510
Ser Ile Ile Gly	Pro Ile Arg Leu Lys	Arg Asp Arg Ser Ala Ser	515	520	525
Gly Asn Ser Gly	Phe Gln His Glu Thr	His Ala Glu Glu Thr Pro	530	535	540
Asn Gln Pro Phe	Asn Ser Val His Leu	Phe Ser Phe Met Val Leu	545	550	555
Ala Leu Asn Val	Val Thr Val Ala Thr	Ile Thr Val Arg His Phe	560	565	570
Val Asn Gln Arg	Ala Asp Tyr Lys Tyr	Gln Lys Leu Gln Asn Tyr	575	580	585

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<212> PRT

<213> Homo sapiens

<220> -

<223> 2774542CD1

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Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser	1	5	10	15
Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln	20	25	30	
Pro Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile	35	40	45	
Gly Cys Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu	50	55	60	
Gln Pro Ala Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala				

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